

**What is claimed is:**

1. A mobile communication system comprising:

a mobile terminal;

a radio access network which comprises:

a radio base station which carries out  
5 packet communication with said mobile terminal through  
a radio channel, and

a radio channel control station which  
controls said radio base station; and

a home agent which stores data transmitted  
10 from said mobile terminal and associated with a  
current position of said mobile terminal,

wherein the packet communication between said  
mobile terminal and said radio channel control station  
is controlled based on radio channel control of packet  
15 switching connection, and

the packet communication from said core  
network to said radio channel control station is  
controlled based on mobile IP (mobile Internet  
protocol).

2. The mobile communication system according to  
claim 1, wherein said home agent receives packet data  
destined to said mobile terminal once, and transfers  
the packet data to said mobile terminal based on the  
5 stored data associated with the current position of  
said mobile terminal.

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4. The mobile communication system according to claim 1, wherein said home agent is provided on the Internet between said radio access network and another radio access network.

6. The mobile communication system according to claim 2, wherein said home agent comprises:

5 terminal; and

7. The mobile communication system according to

claim 6, wherein said mobile terminal comprises:

an IP module which decapsulates the encapsulated packet data which has been transmitted from said IP module of said home agent, to extract the packet data.

8. The mobile communication system according to claim 6, wherein said radio channel control station comprises:

an IP module which decapsulates the encapsulated packet data which has been transmitted from said IP module of said home agent, to extract the packet data, and transfers the extracted packet data to said mobile terminal.

9. The mobile communication system according to claim 1, wherein said mobile terminal comprises:

a mobile IP module which transmits the data associated with the current position of said mobile terminal to said home agent.

10. The mobile communication system according to claim 1, wherein said mobile terminal comprises:

a radio channel control module which transmits the data associated with the current position of said mobile terminal, and said radio channel control station comprises:

a radio channel control module which receives the data associated with the current position of said mobile terminal and converts to transmit to said home agent.

11. The mobile communication system according to claim 8, wherein said mobile terminal transmits the data associated with the current position of said mobile terminal in response to a position control notice signal from said radio channel control station.

12. A control method in a mobile communication system, comprising the steps of:

(a) transmitting user data for position registration of said mobile terminal to a home agent of a core network via a radio channel control station; and

(b) registering the user data by said home agent.

13. The control method according to claim 12, further comprises:

(c) establishing a channel between a mobile terminal and a radio channel control station, and wherein said (a) transmitting step comprises the step of transmitting the user data to a home agent of said core network via said radio channel control

station using the established channel.

14. The control method according to claim 12,  
wherein said (a) transmitting step comprises the steps  
of:

(d) converting the user data into a control  
5 signal by said mobile terminal;

(e) transmitting the control signal to said radio channel control station;

(f) reproducing the user data from the control signal; and

10 (g) transmitting the reproduced user data to  
said home agent.

15. The control method according to claim 12,  
wherein said (a) transmitting step comprises the steps  
of:

(h) transmitting a control signal indicating  
5 the user data to said radio channel control station;

(i) converting the control signal into the user data by said radio channel control station; and

(j) transmitting the user data to said home agent.

16.           The control method according to claim 12,  
wherein said (a) transmitting step is carried out in  
response to a position control notice signal from said

radio channel control station.

17. The control method according to claim 12,  
wherein communication between said mobile terminal and  
the radio channel control station is carried out based  
on radio channel control of packet switching  
5 connection, and

communication from said core network to said  
radio channel control station is carried out based on  
mobile IP (mobile Internet protocol).

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